

# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. 1.53(b))

|                        |                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------|
| Attorney Docket No.    | 030048123US                                                                                           |
| First Inventor         | Kevin L. Loss                                                                                         |
| Title                  | METHODS AND SYSTEMS FOR CONTROLLING<br>FLAMMABILITY CONTROL SYSTEMS IN<br>AIRCRAFT AND OTHER VEHICLES |
| Express Mail Label No. | EV343590696US                                                                                         |

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
2. ☐ Applicant claims small entity status.  
See 37 CFR 1.27.
3. ☒ Specification [Total Pages 26]  
(preferred arrangement set forth below)
  - Descriptive title of the Invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 4]
5. Oath or Declaration [Total Pages 4]
  - a. ☒ Newly executed (original or copy)
  - b. ☐ Copy from a prior application (37 CFR 1.63 (d))  
(for a continuation/divisional with Box 18 completed)
  - i. ☐ DELETION OF INVENTOR(S)  
Signed statement attached deleting inventor(s)  
named in the prior application, see 37 CFR  
1.63(d)(2) and 1.33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76

## ADDRESS TO:

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

7. ☐ CD-ROM or CD-R in duplicate, large table or  
Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)
  - a. ☐ Computer Readable Form (CRF)
  - b. Specification Sequence Listing on:
    - i. ☐ CD-ROM or CD-R (2 copies); or
    - ii. ☐ paper
  - c. ☐ Statements verifying identity of above copies

## ACCOMPANYING APPLICATIONS PARTS

9. ☒ Assignment Papers (cover sheet & document(s))
10. ☐ 37 C.F.R. §3.73(b) Statement ☐ Power of  
(when there is an assignee) Attorney
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure ☐ Copies of IDS  
Statement (IDS)/PTO-1449 Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)
16. ☐ Request and Certification under 35 U.S.C. 122  
(b)(2)(B)(i). Applicant must attach form PTO/SB/35  
or its equivalent.
17. ☒ Other: Check

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☒ Continuation-in-part (CIP) of prior application No: \_\_\_\_\_ / \_\_\_\_\_  
Prior application Information: Examiner \_\_\_\_\_ Group / Art Unit: \_\_\_\_\_

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

☐ Claims the benefit of \_\_\_\_\_ Application No. \_\_\_\_\_

## 19. CORRESPONDENCE ADDRESS

☒ Customer Number

25096

or ☐ Correspondence address below

Name

Address

City

Country

State

Telephone

Zip Code

Fax

Name (Print/Type)

Stephen E. Arnett

Registration No. (Attorney/Agent)

47,392

Signature

Date

February 27, 2004

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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# FEE TRANSMITTAL


## for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

|                                                                                |  |                      |  |                   |  |
|--------------------------------------------------------------------------------|--|----------------------|--|-------------------|--|
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27 |  | Express Mail No.     |  | EV343590696US     |  |
| TOTAL AMOUNT OF PAYMENT                                                        |  | Application Number   |  |                   |  |
| (\$)                                                                           |  | Filing Date          |  | February 27, 2004 |  |
| 1906.00                                                                        |  | First Named Inventor |  | Kevin L. Loss     |  |
|                                                                                |  | Examiner Name        |  |                   |  |
|                                                                                |  | Art Unit             |  |                   |  |
|                                                                                |  | Attorney Docket No.  |  | 030048123US       |  |

| METHOD OF PAYMENT (check all that apply)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          | FEE CALCULATION (continued)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| <input checked="" type="checkbox"/> Check <input type="checkbox"/> Credit card <input type="checkbox"/> Money Order <input type="checkbox"/> Other <input type="checkbox"/> None<br><input checked="" type="checkbox"/> Deposit Account:<br>Deposit Account Number <b>50-0665</b><br>Deposit Account Name <b>Perkins Coie LLP</b><br>The Commissioner is authorized to: (check all that apply)<br><input type="checkbox"/> Charge fee(s) indicated below <input checked="" type="checkbox"/> Credit any overpayments<br><input checked="" type="checkbox"/> Charge any additional fee(s) during the pendency of this application<br><input type="checkbox"/> Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.                                                                                                                                                                                                                                                                                                              |          | <b>3. ADDITIONAL FEES</b><br><table border="1"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr> <td>1051</td> <td>130</td> <td>2051</td> <td>65</td> <td>Surcharge - late filing fee or oath</td> <td></td> </tr> <tr> <td>1052</td> <td>50</td> <td>2052</td> <td>25</td> <td>Surcharge - late provisional filing fee or cover sheet</td> <td></td> </tr> <tr> <td>1053</td> <td>130</td> <td>1053</td> <td>130</td> <td>Non-English Specification</td> <td></td> </tr> <tr> <td>1812</td> <td>2,520</td> <td>1812</td> <td>2,520</td> <td>For filing a request for <i>ex parte</i> reexamination</td> <td></td> </tr> <tr> <td>1804</td> <td>920*</td> <td>1804</td> <td>920*</td> <td>Requesting publication of SIR prior to Examiner action</td> <td></td> </tr> <tr> <td>1805</td> <td>1,840*</td> <td>1805</td> <td>1,840*</td> <td>Requesting publication of SIR after Examiner action</td> <td></td> </tr> <tr> <td>1251</td> <td>110</td> <td>2251</td> <td>55</td> <td>Extension for reply within first month</td> <td></td> </tr> <tr> <td>1252</td> <td>420</td> <td>2252</td> <td>210</td> <td>Extension for reply within second month</td> <td></td> </tr> <tr> <td>1253</td> <td>950</td> <td>2253</td> <td>475</td> <td>Extension for reply within third month</td> <td></td> </tr> <tr> <td>1254</td> <td>1,480</td> <td>2254</td> <td>740</td> <td>Extension for reply within fourth month</td> <td></td> </tr> <tr> <td>1255</td> <td>2,010</td> <td>2255</td> <td>1,005</td> <td>Extension for reply within fifth month</td> <td></td> </tr> <tr> <td>1401</td> <td>330</td> <td>2401</td> <td>165</td> <td>Notice of Appeal</td> <td></td> </tr> <tr> <td>1402</td> <td>330</td> <td>2402</td> <td>165</td> <td>Filing a brief in support of an appeal</td> <td></td> </tr> <tr> <td>1403</td> <td>290</td> <td>2403</td> <td>145</td> <td>Request for oral hearing</td> <td></td> </tr> <tr> <td>1451</td> <td>1,510</td> <td>1451</td> <td>1,510</td> <td>Petition to institute a public use proceeding</td> <td></td> </tr> <tr> <td>1452</td> <td>110</td> <td>2452</td> <td>55</td> <td>Petition to revive - unavoidable</td> <td></td> </tr> <tr> <td>1453</td> <td>1,330</td> <td>2453</td> <td>665</td> <td>Petition to revive - unintentional</td> <td></td> </tr> <tr> <td>1501</td> <td>1,330</td> <td>2501</td> <td>665</td> <td>Utility issue fee (or reissue)</td> <td></td> </tr> <tr> <td>1502</td> <td>480</td> <td>2502</td> <td>240</td> <td>Design issue fee</td> <td></td> </tr> <tr> <td>1503</td> <td>640</td> <td>2503</td> <td>320</td> <td>Plant issue fee</td> <td></td> </tr> <tr> <td>1460</td> <td>130</td> <td>1460</td> <td>130</td> <td>Petitions to the Commissioner</td> <td></td> </tr> <tr> <td>1807</td> <td>50</td> <td>1807</td> <td>50</td> <td>Processing fee under 37 CFR 1.17(q)</td> <td></td> </tr> <tr> <td>1806</td> <td>180</td> <td>1806</td> <td>180</td> <td>Submission of Information Disclosure Stmt</td> <td></td> </tr> <tr> <td>8021</td> <td>40</td> <td>8021</td> <td>40</td> <td>Recording each patent assignment per property (times number of properties)</td> <td>40.00</td> </tr> <tr> <td>1809</td> <td>770</td> <td>2809</td> <td>385</td> <td>Filing a submission after final rejection (37 CFR 1.129(a))</td> <td></td> </tr> <tr> <td>1810</td> <td>770</td> <td>2810</td> <td>385</td> <td>For each additional invention to be examined (37 CFR 1.129(b))</td> <td></td> </tr> <tr> <td>1801</td> <td>770</td> <td>2801</td> <td>385</td> <td>Request for Continued Examination (RCE)</td> <td></td> </tr> <tr> <td>1802</td> <td>900</td> <td>1802</td> <td>900</td> <td>Request for expedited examination of a design application</td> <td></td> </tr> </tbody> </table> |          | Large Entity                                                               |          | Small Entity    |          | Fee Description | Fee Paid | Fee Code | Fee (\$) | Fee Code | Fee (\$) | 1051 | 130 | 2051                   | 65     | Surcharge - late filing fee or oath |     | 1052 | 50  | 2052                              | 25 | Surcharge - late provisional filing fee or cover sheet |     | 1053 | 130 | 1053                                  | 130 | Non-English Specification |     | 1812 | 2,520 | 1812                                               | 2,520 | For filing a request for <i>ex parte</i> reexamination |     | 1804 | 920* | 1804                                                       | 920* | Requesting publication of SIR prior to Examiner action |  | 1805 | 1,840* | 1805 | 1,840*  | Requesting publication of SIR after Examiner action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | 1251         | 110 | 2251         | 55 | Extension for reply within first month |  | 1252     | 420 | 2252 | 210 | Extension for reply within second month |  | 1253 | 950 | 2253 | 475 | Extension for reply within third month |         | 1254 | 1,480 | 2254  | 740 | Extension for reply within fourth month |  | 1255 | 2,010   | 2255 | 1,005 | Extension for reply within fifth month |   | 1401   | 330 | 2401         | 165 | Notice of Appeal |  | 1402 | 330     | 2402 | 165 | Filing a brief in support of an appeal |  | 1403 | 290 | 2403 | 145 | Request for oral hearing |  | 1451 | 1,510 | 1451 | 1,510 | Petition to institute a public use proceeding |  | 1452 | 110 | 2452 | 55 | Petition to revive - unavoidable |  | 1453 | 1,330 | 2453 | 665 | Petition to revive - unintentional |  | 1501 | 1,330 | 2501 | 665 | Utility issue fee (or reissue) |  | 1502 | 480 | 2502 | 240 | Design issue fee |  | 1503 | 640 | 2503 | 320 | Plant issue fee |  | 1460 | 130 | 1460 | 130 | Petitions to the Commissioner |  | 1807 | 50 | 1807 | 50 | Processing fee under 37 CFR 1.17(q) |  | 1806 | 180 | 1806 | 180 | Submission of Information Disclosure Stmt |  | 8021 | 40 | 8021 | 40 | Recording each patent assignment per property (times number of properties) | 40.00 | 1809 | 770 | 2809 | 385 | Filing a submission after final rejection (37 CFR 1.129(a)) |  | 1810 | 770 | 2810 | 385 | For each additional invention to be examined (37 CFR 1.129(b)) |  | 1801 | 770 | 2801 | 385 | Request for Continued Examination (RCE) |  | 1802 | 900 | 1802 | 900 | Request for expedited examination of a design application |  |
| Large Entity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | Small Entity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          | Fee Description                                                            | Fee Paid |                 |          |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                 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| Fee Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Fee (\$) | Fee Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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       |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                 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| 1051                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 130      | 2051                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 65       | Surcharge - late filing fee or oath                                        |          |                 |          |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |              |     |              |    |                                        |  |          |     |      |     |                                         |  |      |     |      |     |                                        |         |      |       |       |     |                                         |  |      |         |      |       |                                        |   |        |     |              |     |                  |  |      |         |      |     |                                        |  |      |     |      |     |                          |  |      |       |      |       |                                               |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |                                           |  |      |    |      |    |                                                                            |       |      |     |      |     |                                                             |  |      |     |      |     |                                                                |  |      |     |      |     |                                         |  |      |     |      |     |                                                           |  |
| 1052                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 50       | 2052                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 25       | Surcharge - late provisional filing fee or cover sheet                     |          |                 |          |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |              |     |              |    |                                        |  |          |     |      |     |                                         |  |      |     |      |     |                                        |         |      |       |       |     |                                         |  |      |         |      |       |                                        |   |        |     |              |     |                  |  |      |         |      |     |                                        |  |      |     |      |     |                          |  |      |       |      |       |                                               |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |                                           |  |      |    |      |    |                                                                            |       |      |     |      |     |                                                             |  |      |     |      |     |                                                                |  |      |     |      |     |                                         |  |      |     |      |     |                                                           |  |
| 1053                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 130      | 1053                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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       |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                 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| 1812                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2,520    | 1812                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2,520    | For filing a request for <i>ex parte</i> reexamination                     |          |                 |          |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                 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| 1804                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 920*     | 1804                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 920*     | Requesting publication of SIR prior to Examiner action                     |          |                 |          |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                 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| 1805                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1,840*   | 1805                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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       |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                 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| 1251                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 110      | 2251                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 55       | Extension for reply within first month                                     |          |                 |          |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                 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| 1252                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 420      | 2252                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 210      | Extension for reply within second month                                    |          |                 |          |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                 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| 1253                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 950      | 2253                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 475      | Extension for reply within third month                                     |          |                 |          |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                 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| 1254                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1,480    | 2254                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 740      | Extension for reply within fourth month                                    |          |                 |          |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                 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| 1255                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2,010    | 2255                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1,005    | Extension for reply within fifth month                                     |          |                 |          |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                 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| 1401                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 330      | 2401                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 165      | Notice of Appeal                                                           |          |                 |          |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                 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                               |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |                                           |  |      |    |      |    |                                                                            |       |      |     |      |     |                                                             |  |      |     |      |     |                                                                |  |      |     |      |     |                                         |  |      |     |      |     |                                                           |  |
| 1402                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 330      | 2402                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 165      | Filing a brief in support of an appeal                                     |          |                 |          |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                 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| 1403                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 290      | 2403                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 145      | Request for oral hearing                                                   |          |                 |          |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                 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                               |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |                                           |  |      |    |      |    |                                                                            |       |      |     |      |     |                                                             |  |      |     |      |     |                                                                |  |      |     |      |     |                                         |  |      |     |      |     |                                                           |  |
| 1451                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1,510    | 1451                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1,510    | Petition to institute a public use proceeding                              |          |                 |          |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                 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| 1452                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 110      | 2452                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 55       | Petition to revive - unavoidable                                           |          |                 |          |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |              |     |              |    |                                        |  |          |     |      |     |                                         |  |      |     |      |     |                                        |         |      |       |       |     |                                         |  |      |         |      |       |                                        |   |        |     |              |     |                  |  |      |         |      |     |                                        |  |      |     |      |     |                          |  |      |       |      |       |                                               |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |                                           |  |      |    |      |    |                                                                            |       |      |     |      |     |                                                             |  |      |     |      |     |                                                                |  |      |     |      |     |                                         |  |      |     |      |     |                                                           |  |
| 1453                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1,330    | 2453                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 665      | Petition to revive - unintentional                                         |          |                 |          |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |              |     |              |    |                                        |  |          |     |      |     |                                         |  |      |     |      |     |                                        |         |      |       |       |     |                                         |  |      |         |      |       |                                        |   |        |     |              |     |                  |  |      |         |      |     |                                        |  |      |     |      |     |                          |  |      |       |      |       |                                               |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |                                           |  |      |    |      |    |                                                                            |       |      |     |      |     |                                                             |  |      |     |      |     |                                                                |  |      |     |      |     |                                         |  |      |     |      |     |                                                           |  |
| 1501                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1,330    | 2501                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| 1502                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 480      | 2502                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 240      | Design issue fee                                                           |          |                 |          |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                 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| 1503                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 640      | 2503                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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       |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                 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| 1460                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 130      | 1460                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 130      | Petitions to the Commissioner                                              |          |                 |          |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                 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| 1807                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 50       | 1807                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 50       | Processing fee under 37 CFR 1.17(q)                                        |          |                 |          |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                 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| 1806                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 180      | 1806                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 180      | Submission of Information Disclosure Stmt                                  |          |                 |          |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                 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| 8021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 40       | 8021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 40       | Recording each patent assignment per property (times number of properties) | 40.00    |                 |          |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                 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| 1809                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 770      | 2809                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 385      | Filing a submission after final rejection (37 CFR 1.129(a))                |          |                 |          |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                 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                               |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |                                           |  |      |    |      |    |                                                                            |       |      |     |      |     |                                                             |  |      |     |      |     |                                                                |  |      |     |      |     |                                         |  |      |     |      |     |                                                           |  |
| 1810                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 770      | 2810                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 385      | For each additional invention to be examined (37 CFR 1.129(b))             |          |                 |          |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                 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| 1801                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 770      | 2801                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 385      | Request for Continued Examination (RCE)                                    |          |                 |          |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                 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| 1802                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 900      | Request for expedited examination of a design application                  |          |                 |          |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                 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| <b>1. BASIC FILING FEE</b><br><table border="1"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr> <td>1001</td> <td>770</td> <td>2001</td> <td>385</td> <td>Utility filing fee</td> <td>770.00</td> </tr> <tr> <td>1002</td> <td>340</td> <td>2002</td> <td>170</td> <td>Design filing fee</td> <td></td> </tr> <tr> <td>1003</td> <td>530</td> <td>2003</td> <td>265</td> <td>Plant filing fee</td> <td></td> </tr> <tr> <td>1004</td> <td>770</td> <td>2004</td> <td>385</td> <td>Reissue filing fee</td> <td></td> </tr> <tr> <td>1205</td> <td>160</td> <td>2005</td> <td>80</td> <td>Provisional filing fee</td> <td></td> </tr> <tr> <td colspan="4">SUBTOTAL (1)</td> <td>(\$)</td> <td>770.00</td> </tr> </tbody> </table>                                                                                                                        |          | Large Entity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| Fee Code        | Fee (\$) | Fee Code | Fee (\$) | 1001     | 770      | 2001 | 385 | Utility filing fee     | 770.00 | 1002                                | 340 | 2002 | 170 | Design filing fee                 |    | 1003                                                   | 530 | 2003 | 265 | Plant filing fee                      |     | 1004                      | 770 | 2004 | 385   | Reissue filing fee                                 |       | 1205                                                   | 160 | 2005 | 80   | Provisional filing fee                                     |      | SUBTOTAL (1)                                           |  |      |        | (\$) | 770.00  | <b>2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE</b><br><table border="1"> <thead> <tr> <th colspan="2">Total Claims</th> <th colspan="2">Extra Claims</th> <th colspan="2">Fee from below</th> <th colspan="2">Fee Paid</th> </tr> <tr> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>57</td> <td>-20** =</td> <td>37</td> <td>X</td> <td>18.00</td> <td>=</td> <td>666.00</td> <td></td> </tr> <tr> <td>8</td> <td>- 3** =</td> <td>57</td> <td>X</td> <td>86.00</td> <td>=</td> <td>430.00</td> <td></td> </tr> <tr> <td colspan="4">SUBTOTAL (2)</td> <td>(\$)</td> <td>1096.00</td> <td colspan="2"></td> </tr> </tbody> </table> |  | Total Claims |     | Extra Claims |    | Fee from below                         |  | Fee Paid |     |      |     |                                         |  |      |     |      |     | 57                                     | -20** = | 37   | X     | 18.00 | =   | 666.00                                  |  | 8    | - 3** = | 57   | X     | 86.00                                  | = | 430.00 |     | SUBTOTAL (2) |     |                  |  | (\$) | 1096.00 |      |     |                                        |  |      |     |      |     |                          |  |      |       |      |       |                                               |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |                                           |  |      |    |      |    |                                                                            |       |      |     |      |     |                                                             |  |      |     |      |     |                                                                |  |      |     |      |     |                                         |  |      |     |      |     |                                                           |  |
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       |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                 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| 1002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 340      | 2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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       |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                 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| 1003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 530      | 2003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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       |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                 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| 1004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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       |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                 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| 1205                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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       |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                 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| SUBTOTAL (1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| Total Claims                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| <b>2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE</b><br><table border="1"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr> <td>1202</td> <td>18</td> <td>2202</td> <td>9</td> <td>Claims in excess of 20</td> <td></td> </tr> <tr> <td>1201</td> <td>86</td> <td>2201</td> <td>43</td> <td>Independent claims in excess of 3</td> <td></td> </tr> <tr> <td>1203</td> <td>290</td> <td>2203</td> <td>145</td> <td>Multiple dependent claim, if not paid</td> <td></td> </tr> <tr> <td>1204</td> <td>86</td> <td>2204</td> <td>43</td> <td>** Reissue independent claims over original patent</td> <td></td> </tr> <tr> <td>1205</td> <td>18</td> <td>2205</td> <td>9</td> <td>** Reissue claims in excess of 20 and over original patent</td> <td></td> </tr> <tr> <td colspan="4">SUBTOTAL (2)</td> <td>(\$)</td> <td>1096.00</td> </tr> </tbody> </table> |          | Large Entity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| Fee Paid | Fee Code        | Fee (\$) | Fee Code | Fee (\$) | 1202     | 18       | 2202 | 9   | Claims in excess of 20 |        | 1201                                | 86  | 2201 | 43  | Independent claims in excess of 3 |    | 1203                                                   | 290 | 2203 | 145 | Multiple dependent claim, if not paid |     | 1204                      | 86  | 2204 | 43    | ** Reissue independent claims over original patent |       | 1205                                                   | 18  | 2205 | 9    | ** Reissue claims in excess of 20 and over original patent |      | SUBTOTAL (2)                                           |  |      |        | (\$) | 1096.00 | Other fee (specify) _____<br>*Reduced by Basic Filing Fee Paid <b>SUBTOTAL (3)</b> (\$ 40.00)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |              |     |              |    |                                        |  |          |     |      |     |                                         |  |      |     |      |     |                                        |         |      |       |       |     |                                         |  |      |         |      |       |                                        |   |        |     |              |     |                  |  |      |         |      |     |                                        |  |      |     |      |     |                          |  |      |       |      |       |            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| 1202                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 18       | 2202                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 9        | Claims in excess of 20                                                     |          |                 |          |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                 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| 1201                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 86       | 2201                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 43       | Independent claims in excess of 3                                          |          |                 |          |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                 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| 1203                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 290      | 2203                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 145      | Multiple dependent claim, if not paid                                      |          |                 |          |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                 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| 1204                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 86       | 2204                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 43       | ** Reissue independent claims over original patent                         |          |                 |          |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 9        | ** Reissue claims in excess of 20 and over original patent                 |          |                 |          |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                 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| SUBTOTAL (2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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       |                 |          |          |          |          |          |      |     |                        |        |                                     |     |      |     |                                   |    |                                                        |     |      |     |                                       |     |                           |     |      |       |                                                    |       |                                                        |     |      |      |                                                            |      |                                                        |  |      |        |      |         |                                                                                                                                                                                                                                                                                                                 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\*\*or number previously paid, if greater; For Reissues, see above

|                     |                                                                                     |                                   |                   |
|---------------------|-------------------------------------------------------------------------------------|-----------------------------------|-------------------|
| <b>SUBMITTED BY</b> |                                                                                     | <b>(Complete (if applicable))</b> |                   |
| Name (Print/Type)   | Stephen E. Arnett                                                                   | Registration No. (Attorney/Agent) | 47,392            |
| Signature           |  | Telephone                         | (206) 359-8000    |
|                     |                                                                                     | Date                              | February 27, 2004 |

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